

Amendments to and Listing of the Claims

Please cancel claims 1-7, and add new claims 8-10, so that the claims read as follows:

1-7. (Cancelled)

8. (New) A liquid pump comprising a pressure vessel having end-openings for hermetically holding a liquid therein, such that the liquid flows from one of the end-openings to another of the end-openings by utilizing a difference in a coefficient of thermal expansion of the pressure vessel and the liquid caused by heating or cooling the pressure vessel and the liquid together, and a heating-cooling bath for receiving the pressure vessel for heating or cooling, wherein the pressure vessel has a coil shape and sufficient heat conductivity for heating or cooling the liquid and the pressure vessel together.

9. (New) The liquid pump according to Claim 8, wherein the pressure vessel is a tube having an inner diameter of about 0.5 mm or less and a length of about 10 m or more.

10. (New) The liquid pump according to Claim 8, wherein the heating-cooling bath is any one of an air bath and a liquid bath.